

CA45L Series

Conventional Chip Tantalum Solid Electrolyte Capacitors — Low ESR

Features

- Epoxy molded encapsulation, chip, easy for integration, polarized
- Low ESR, volumetrically efficient, stable in electrical & storage performances, long life-span, high reliability
- Typical applications include decoupling and filtering in industrial and automotive end applications, such as DC/DC converters, portable electronics, telecommunications and control units
- Operative standard: QJ/PWV305-2008

TEMPERATURE RANGE

-55°C ... +125°C

RATED VOLTAGE

4 – 63 V

CAPACITANCE

0.47 – 1000 µF

Rated voltage 4–63 V and capacitance 0.47–1000 µF = range of the listed part numbers. The Technical characteristics table (original PDF p.2) lists 4–50 V only; 63 V — subject to manufacturer confirmation.

Specifications

Technical parameter	All technical parameters are measured at 1 atmospheric pressure and +25°C
Capacitance range	0.47µF~1000µF
Capacitance tolerance	±10% ±20%
Rated, category and surge voltages	See Technical characteristics
Temperature range	-55°C to +125°C
Pin coating	Tin coating (standard), gold coating or tin lead coating require additional requirements

Technical characteristics (original PDF p.2)

Rated voltage (VR) ≤+85°C	4	6.3	10	16	20	25	35	50
Cat. voltage (VC) ≤+125°C	2.7	4	6.3	10	15	17	23	33
Surge voltage (VS) ≤+85°C	5.2	8	13	20	26	32	46	65
Surge voltage (VS) ≤+125°C	3.4	5	8	13	16	20	28	40

As printed on original PDF p.2 (4–50 V). The characteristics list also contains 63 V parts (category voltage 40 V); 63 V surge voltages are not printed — subject to manufacturer confirmation.

Case size and ESR by capacitance, 4–16 V (original PDF p.3)

Nominal capacitance (µF)	4 V	6.3 V	10 V	16 V
6.8				A(2000),B(1200)
10			A(1800)	A(1700),B(1200)
15			A(1200),B(400)	B(800),C(600)
22			A(1200),B(400)	B(700),C(500),D(500)
33		A(1500),B(600)	B(450),C(400),D(300)	C(500),D(300)
47	A(1500),B(900)	B(600),C(300)	B(500),C(400),D(300)	C(300),D(300),E(200)
68	B(1000),C(600)	B(500),C(500),D(250)	C(200),D(150)	C(1000),D(200),E(200)
100	B(450),C(500)	B(400),C(300),D(300)	C(250),D(200),E(150)	C(800),D(200),E(200)
150	C(500),D(350),E(200)	C(300),D(300),E(150)	D(200),E(150)	D(500),E(200)
220	C(500),D(300),E(100)	C(200),D(150),E(150)	D(200),E(200),V(200)	E(200),V(200)
330	D(400),E(200),V(200)	D(150),E(150)	D(150),E(150),V(150)	E(180),V(180)
470	D(200),E(150),V(150)	E(150)	E(150)	E(450)
680	E(150)	E(150)	E(150)	
1000	E(150)			

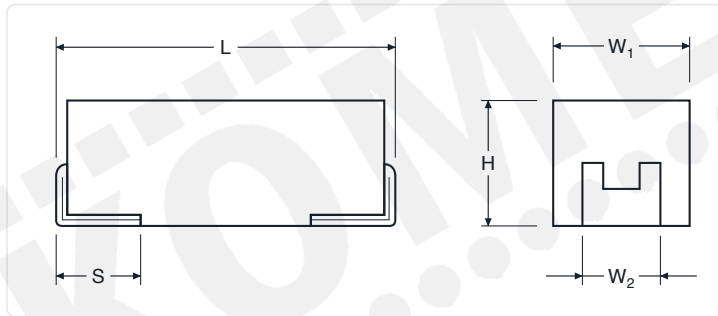
Case size (ESR) as printed; ESR unit not printed in the original table (values correspond to the ESR max (mΩ) column of the characteristics list). This table gives one ESR per case, the lowest listed in the characteristics list. 10 V 10 µF: this table A(1800) vs. characteristics list none; 10 V 15 µF: this table A(1200), B(400) vs. characteristics list A(1000,1800), B(600,900) — subject to manufacturer confirmation.

Case size and ESR by capacitance, 20–63 V (original PDF p.3)

Nominal capacitance (μF)	20 V	25 V	35 V	50 V	63 V
0.47			A(4000,A(8000)	A(3000,6000)	
0.68			A(6000,A(7000)	B(3000,6000)	
1			A(6000,7000),B(2500,3000)	B(2500,4000),C(1800,4000)	C(2000)
1.5		A(4500,7500),B(3000,5000)	B(3000,4000),C(2500,3000)	C(1800,3000),D(1000,2500)	D(2500)
2.2		A(3000,8000),B(2500,5000)	B(2500,3000),C(2000,2500)	C(1500,2000),D(700,1000)	D(1500)
3.3	A(4000,5000),B(3000,4000)	B(2000,3000),C(1200,2000)	B(2500,3000),C(1200,2000)	C(700,1500),D(700,1500)	D(1200)
4.7	A(2500,5000),B(1500,3000),C(1000,2500)	B(1000,1200),C(1000,2000)	B(2000,2500),C(800,1000),D(700,1000)	C(700,1000),D(600,1000)	E(800)
6.8	B(1000,1800),C(800,1200)	B(2000,2500),C(1000,1500),D(700,1000)	C(700,1200),D(600,1000)	D(400,600),E(400,800)	E(600)
10	B(1200,1800),C(600,1000),D(500,1000)	B(1500,2000),C(900,1200),D(450,800)	C(700,1000),D(400,800)	E(400,500)	E(450)
15	B(1500,1800),C(800,1000),D(600,800)	C(500,1000),D(400,600)	D(350,600),E(300,600)	E(400,500)	E(300)V(300)
22	C(600,900),D(400,600)	C(800,1000),D(400,600)	D(400,500),E(300,400)		V(300)
33	C(600,900),D(400,600)	D(300,500),E(250,500)	D(500,700),E(300,600)		
47	C(300,400),D(250,500),E(250,500)	D(350,500),E(300,600)	D(400,900),E(400,600)		
68	D(250,300),E(250,500)	E(250,500),V(250,600)	E(800)		
100	D(300,400),E(250,300)	E(200,250),V(200,250)			
150	D(450,600),E(180,250)	E(600),V(300)			
220	E(450,600),V(250,400)				
330	E(450,600),V(450,600)				

Case size (ESR) as printed: two ESR values where the characteristics list has two versions of that case, one where it has one; including unbalanced brackets (35 V 0.47 / 0.68 μF, 20 V 100 μF) and missing commas (25 V 10 μF, 63 V 15 μF). 50 V 6.8 μF: this table D(400,600), E(400,800) vs. characteristics list D(600,800), E(500,1000); 50 V 10 μF: this table E(400,500) vs. characteristics list D(400,600), E(400,800); 50 V 22 μF: this table none vs. characteristics list E(400,500) — subject to manufacturer confirmation.

Outline and dimensions (original PDF p.1)



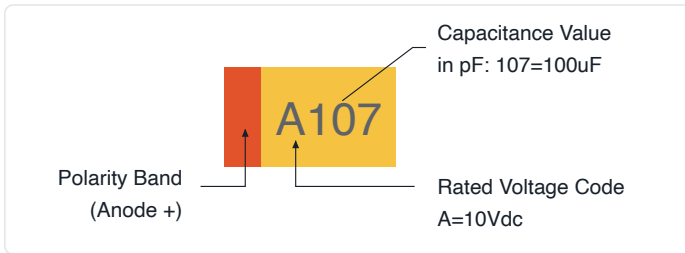
Case size	EIA BS	EIA metric code	L	W1	H	S	W2
A	1206	3216–18	3.30±0.20	1.70±0.20	1.80±0.20	0.70±0.20	1.20±0.20
B	1210	3528–21	3.60±0.20	2.90±0.20	2.10±0.20	0.70±0.20	2.20±0.20
C	2312	6032–28	6.20±0.20	3.30±0.20	2.60±0.20	1.30±0.20	2.20±0.20
D	2917	7343–31	7.40±0.20	4.40±0.20	3.00±0.20	1.30±0.20	2.40±0.20
E	2917	7343–43	7.40±0.40	4.40±0.40	4.30±0.40	1.30±0.20	2.40±0.20
W	2924	7360–38	7.50±0.40	6.20±0.40	3.80±0.40	1.40±0.20	3.00±0.20

Unit: mm. The drawing carries letters only (no values); values as printed in the table on original PDF p.1. Column headings as printed ('Shell Number' = case size).

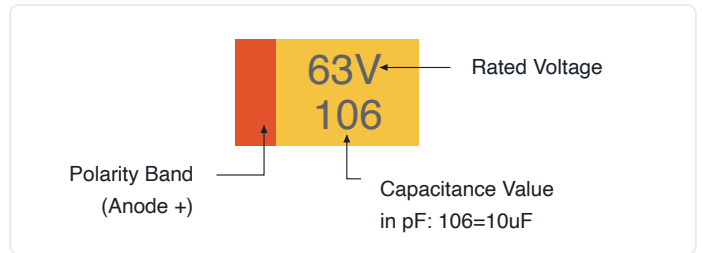
Column heading 'EIA BS' is not explained in the original — subject to manufacturer confirmation.

Case W is listed here; the characteristics list uses case V, which has no row in this table — subject to manufacturer confirmation.

Marking (original PDF p.1)



Rated Voltage less than 63Vdc



Rated Voltage as 63Vdc or more

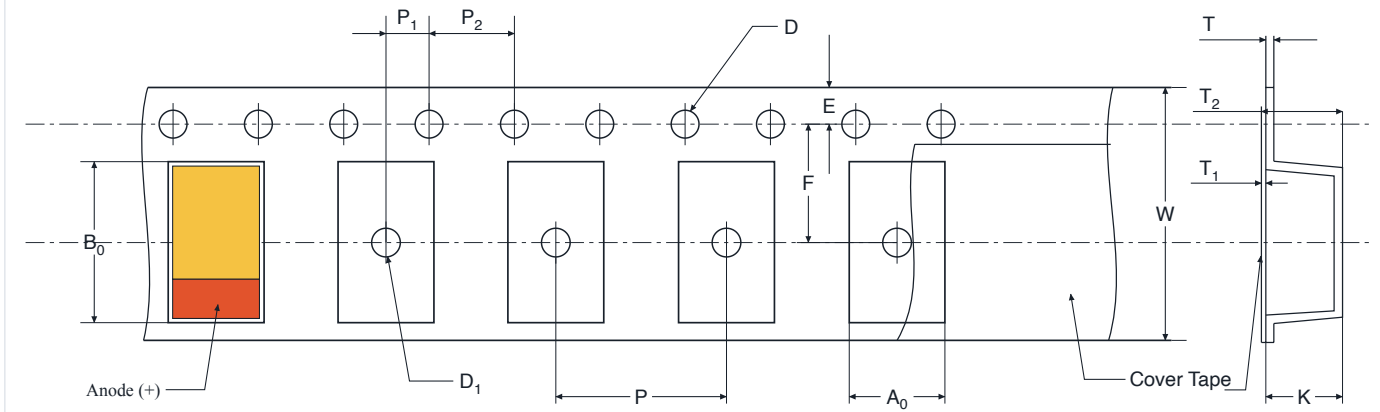
Rated-voltage code letters other than A=10Vdc are not given in the original — subject to manufacturer confirmation.

Environmental declaration and applications (original PDF p.2)

RoHS declaration (6/6) complies with the requirements of Directive 2002/95/EC, which stipulates the use of 100% Sn solder, gold plated or non-magnetic 100% Sn solder.

Applications: Automotive electronics; DC/DC converter; Filter circuits; Telecom infrastructure.

Packaging: carrier tape (original PDF p.16)



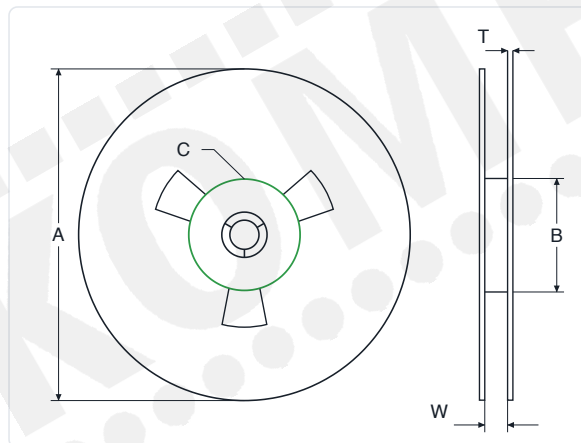
Embossed (Plastic) Carrier Tape Dimensions

Case	A0±0.10	B0±0.10	K±0.10	W±0.30	E±0.10	F±0.05	P±0.10	P1±0.05	P2±0.10	D+0.20	D1+0.25
A	1.83	3.57	1.65	8	1.75	3.5	4	2	4	1.5	1
B	3.15	3.77	2.22	8	1.75	3.5	4	2	4	1.5	1
C	3.45	6.4	2.92	12	1.75	5.5	8	2	4	1.5	1.5
D	4.48	7.62	3.22	12	1.75	5.5	8	2	4	1.5	1.5
E	4.5	7.5	4.5	12	1.75	5.5	8	2	4	1.5	1.5
V	6.4	7.6	4.4	6	1.75	5.5	8	2	4	1.5	1.5

Diagram of Taping Dimensions as printed on original PDF p.16; no unit is printed in this table. Printed under the table: ±0.2mm over 10 sprocket hole spaces.

Case V: W printed as 6 (cases C–E: 12, with the same F 5.5 and P 8); T, T1, T2 are labelled on the drawing without values in the table — subject to manufacturer confirmation.

Reel dimensions (original PDF p.16)



Reel Dimensions

Reel size	Tape width	A	B	C	W	T
180mm (7")	8mm	178±2.00	50 min	13.0±0.50	8.4+1.5/-0	1.50±0.50
180mm (7")	12mm	178±2.00	50 min	13.0±0.50	8.4+1.5/-0	1.50±0.50
180mm (7")	12mm	178±2.00	50 min	13.0±0.50	8.4+1.5/-0	1.50±0.50

Values as printed on original PDF p.16 (rows 2 and 3 are identical as printed); no unit is printed for A, B, C, W and T.

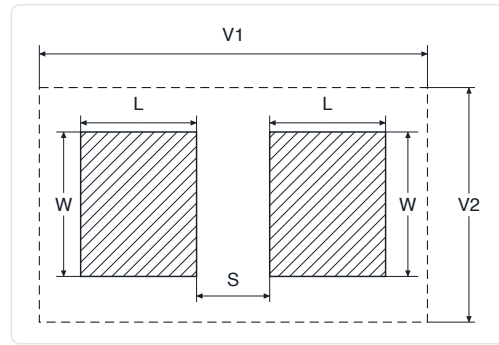
W 8.4+1.5/-0 is printed for both 8mm and 12mm tape; no case assignment is given for the reel rows — subject to manufacturer confirmation.

Packaging quantity (original PDF p.16)

Case size	A	B	C	D	E	V	W
Quantity (pcs / plate)	2000	2000	500	500	400	400	400

Unit printed as 'pcs / plate' on the original PDF and kept as printed; whether 'plate' means reel — subject to manufacturer confirmation.

Surface mount footprints (original PDF p.16)



Surface Mount Footprints

Case	EIA	A: W	A: L	A: S	A: V1	A: V2	B: W	B: L	B: S	B: V1	B: V2	C: W	C: L	C: S	C: V1	C: V2
A	3216-18	1.35	2.20	0.62	6.02	2.8	1.23	1.8	0.82	4.92	2.3	1.13	1.42	0.98	4.06	2.04
B	3528-21	2.35	2.21	0.92	6.32	4.0	2.23	1.8	1.12	5.22	3.5	2.13	1.42	1.28	4.36	3.24
C	6032-25	2.35	2.77	2.37	8.92	4.5	2.23	2.37	2.57	7.82	4	2.13	1.99	2.73	6.96	3.74
D	7343-31	2.55	2.77	3.67	10.22	5.6	2.43	2.37	3.87	9.12	5.1	2.33	1.99	4.03	8.26	4.84
E	7343-43	2.55	2.77	3.67	10.22	5.6	2.43	2.37	3.87	9.12	5.1	2.33	1.99	4.03	8.26	4.84

Unit: mm. A = Density Level A: Maximum (Most) Land Protrusion; B = Density Level B: Median (Nominal) Land Protrusion; C = Density Level C: Minimum (Least) Land Protrusion.

Density Level A: For low-density product applications. Recommended for wave solder applications and provides a wider process window for reflow solder processes.

Density Level B: For products with a moderate level of component density. Provides a robust solder attachment condition for reflow solder processes.

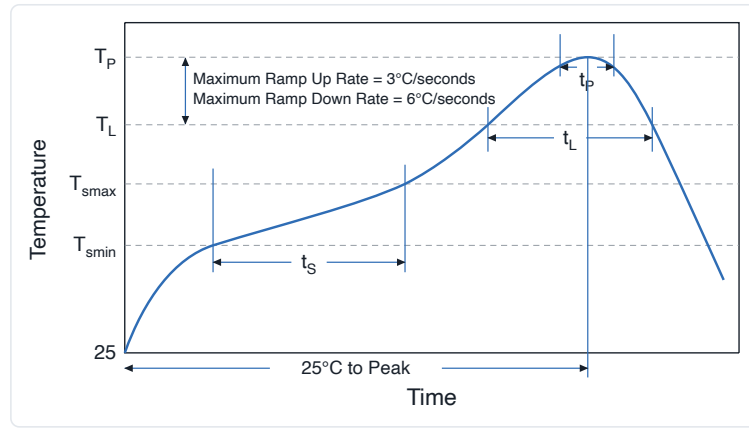
Density Level C: For high component density product applications. Before adapting the minimum land pattern variations the user should perform qualification testing based on the conditions outlined in IPC standard 7351 (IPC-7351).

1 Height of these chips may create problems in wave soldering.

2 Land pattern geometry is too small for silkscreen outline.

Notes 1 and 2 carry no reference marks in the table; case C is 6032-25 here vs. 6032-28 on original PDF p.1; cases V and W are not listed — subject to manufacturer confirmation.

Soldering process (original PDF p.17)



Recommended Reflow Profile

Profile feature	SnPb assembly	Pb-free assembly
Preheat/soak: temperature minimum (Tsmmin)	100° C	100° C
Preheat/soak: temperature maximum (Tsmmax)	150° C	150° C
Preheat/soak: time (ts) from Tsmmin to Tsmmax	60 – 120 seconds	60 – 120 seconds
Ramp-up rate (TL to TP)	3° C/seconds maximum	3° C/seconds maximum
Liquidus temperature (TL)	183° C	217° C
Time above liquidus (tL)	60 – 150 seconds	60 – 150 seconds
Peak temperature (TP)	220° C*, 235° C*	250° C*, 260° C*
Time within 5° C of maximum peak temperature (tP)	20 seconds maximum	30 seconds maximum
Ramp-down rate (TP to TL)	6° C/seconds maximum	6° C/seconds maximum
Time 25° C to peak temperature	6 minutes maximum	8 minutes maximum

The original PDF states that XIANGYEE tantalum capacitors are compatible with wave (single or dual), convection, IR, or vapor phase reflow techniques, and that preheating of these components is recommended to avoid extreme thermal stress.

The original PDF states that XIANGYEE's recommended profile conditions for convection and IR reflow reflect the profile conditions of the IPC/J-STD-020D standard for moisture sensitivity testing, and that the devices can safely withstand a maximum of three reflow passes at these conditions.

Applicability of the two statements above to this KOMES series — subject to manufacturer confirmation.

Hand soldering should be performed with care due to the difficulty in process control. If performed, care should be taken to avoid contact of the soldering iron to the molded case. The iron should be used to heat the solder pad, applying solder between the pad and the termination, until reflow occurs. Once reflow occurs, the iron should be removed immediately. "Wiping" the edges of a chip and heating the top surface is not recommended.

During typical reflow operations, a slight darkening of the gold-colored epoxy may be observed. This slight darkening is normal and not harmful to the product. Marking permanency is not affected by this change.

Note: All temperatures refer to the center of the package, measured on the package body surface that is facing up during assembly reflow.

*Case Size D, E; **Case Size A, B, C

Peak temperature: both values are printed with a single * while the legend defines * (D, E) and ** (A, B, C); cases V and W are not covered — subject to manufacturer confirmation.

Storage (original PDF p.17)

Tantalum dielectric chip capacitors are unaffected by the following storage condition for 2 years:

Temperature: -10°C – +50°C; Humidity: 75% RH maximum; Atmospheric pressure: 860 mbar ~ 1060mbar

Tantalum capacitors exhibit a very low random failure rate after long periods of storage and apart from this there are no known modes of failure under normal storage conditions. All capacitors will withstand any environmental conditions within their ratings for the periods given in the detail specifications. Storage for longer periods under high humidity conditions may affect the leakage current of resin protected capacitors. Solderability of solder coated surfaces may be affected by storage of excess of 2 years.

Notes pending manufacturer confirmation

Case V (characteristics list, p.3, tape p.16) has no outline dimensions; case W (dimensions p.1, quantity p.16) has no part number — subject to manufacturer confirmation.

Case C metric size: 6032–28 (p.1) vs. 6032–25 (land pattern, p.16) — subject to manufacturer confirmation.

Rated voltage 63 V: in the characteristics list (p.15) and p.3, not in the Technical characteristics table (p.2: 4–50 V) — subject to manufacturer confirmation.

Rated-voltage codes 200 / 350 / 500 / 630 in the part numbers are not listed under How to order (p.1: 040 / 060 / 100 / 160 / 250) — subject to manufacturer confirmation.

ESR code: How to order (p.1) explains only the three-digit form (700 = 700 mΩ); part numbers also use codes such as E1K0, E1K5, E2K0, matching 1000, 1500, 2000 mΩ in the ESR column — subject to manufacturer confirmation.

20 V 6.8 μF XRCA45L686K200CT-E1K2: capacitance code 686 (= 68 μF) vs. capacitance 6.8 μF as printed (original PDF p.9) — subject to manufacturer confirmation.

20 V 15 μF XRCA45L155K200DT-E800: capacitance code 155 (= 1.5 μF) vs. capacitance 15 μF as printed (original PDF p.9) — subject to manufacturer confirmation.

20 V 33 μF XRCA45L335K200CT-E600: capacitance code 335 (= 3.3 μF) vs. capacitance 33 μF as printed (original PDF p.10) — subject to manufacturer confirmation.

63 V 1 μF XRCA45L105K630AT-E2K0: case letter A in the part number vs. case size C in the table (original PDF p.15; p.3 also gives C) — subject to manufacturer confirmation.

Case size and ESR table (p.3) vs. characteristics list: 10 V 10 μF: this table A(1800) vs. characteristics list none; 10 V 15 μF: this table A(1200), B(400) vs. characteristics list A(1000,1800), B(600,900); 50 V 6.8 μF: this table D(400,600), E(400,800) vs. characteristics list D(600,800), E(500,1000); 50 V 10 μF: this table E(400,500) vs. characteristics list D(400,600), E(400,800); 50 V 22 μF: this table none vs. characteristics list E(400,500) — subject to manufacturer confirmation.

Note 1 (pp.4–15) refers to '#'; all part numbers are printed with K — subject to manufacturer confirmation.

Note 3 (pp.4–15) 'U_ = 2.2 0-1V' is not legible as a DC bias value — subject to manufacturer confirmation.

Carrier tape (p.16): case V W = 6; reel W 8.4+1.5/-0 for 12mm tape; reel rows without case assignment — subject to manufacturer confirmation.

Land pattern notes 1 and 2 (p.16) have no reference marks; land pattern covers cases A–E only — subject to manufacturer confirmation.

Reflow peak temperature (p.17): * / ** legend does not match the table; cases V and W not covered — subject to manufacturer confirmation.

Page numbers refer to the original KOMES PDF (17 pages).

How to order

XRCA45L Model	107 Capacitance code	K Capacitance tolerance K=±10% / M=±20%	060 DC rated voltage 040=4Vdc / 060=6.3Vdc / 100=10Vdc / 160=16Vdc / 250=25Vdc	B Case size	T Package T=Reel	- Separator	E700 ESR the last three digits are ESR values, measured in mΩ (700=700 mΩ)
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Example: XRCA45L107K060BT-E700

Characteristics list

Rated voltage (V)	Nominal capacitance (μF)	Case size	Rated temp. (°C)	Cat. temp. (°C)	Cat. voltage (V)	Max LC (μA) @25°C	Max DF (%) @25°C 100Hz	ESR max (mΩ) @25°C 100kHz	Max ripple IRMS (A) @100kHz 25°C	Max ripple IRMS (A) @100kHz 85°C	Max ripple IRMS (A) @100kHz 125°C	Part number (as printed, original PDF pp.4-15)
4	47	A	85	125	2.7	1.9	11	1500	0.208	0.125	0.083	XRCA45L476K040AT-E1K5
4	47	A	85	125	2.7	1.9	11	2000	0.180	0.108	0.072	XRCA45L476K040AT-E2K0
4	47	B	85	125	2.7	1.9	8	900	0.289	0.173	0.115	XRCA45L476K040BT-E900
4	47	B	85	125	2.7	1.9	8	1500	0.224	0.134	0.089	XRCA45L476K040BT-E1K5
4	68	B	85	125	2.7	2.7	8	1000	0.274	0.164	0.110	XRCA45L686K040BT-E1K0
4	68	B	85	125	2.7	2.7	8	1500	0.224	0.134	0.089	XRCA45L686K040BT-E1K5
4	68	C	85	125	2.7	2.7	6	600	0.387	0.232	0.155	XRCA45L686K040CT-E600
4	68	C	85	125	2.7	2.7	6	1000	0.300	0.180	0.120	XRCA45L686K040CT-E1K0
4	100	B	85	125	2.7	4.0	10	450	0.408	0.245	0.163	XRCA45L107K040BT-E450
4	100	B	85	125	2.7	4.0	10	800	0.306	0.184	0.122	XRCA45L107K040BT-E800
4	100	C	85	125	2.7	4.0	10	500	0.424	0.255	0.170	XRCA45L107K040CT-E500
4	100	C	85	125	2.7	4.0	10	1000	0.300	0.180	0.120	XRCA45L107K040CT-E1K0
4	150	C	85	125	2.7	6.0	10	500	0.424	0.255	0.170	XRCA45L157K040CT-E500
4	150	C	85	125	2.7	6.0	10	900	0.316	0.190	0.126	XRCA45L157K040CT-E900
4	150	D	85	125	2.7	6.0	8	350	0.548	0.329	0.219	XRCA45L157K040DT-E350
4	150	D	85	125	2.7	6.0	8	700	0.387	0.232	0.155	XRCA45L157K040DT-E700
4	150	E	85	125	2.7	6.0	8	200	0.791	0.474	0.316	XRCA45L157K040ET-E200
4	150	E	85	125	2.7	6.0	8	600	0.456	0.274	0.183	XRCA45L157K040ET-E600
4	220	C	85	125	2.7	8.8	12	500	0.424	0.255	0.170	XRCA45L227K040CT-E500
4	220	C	85	125	2.7	8.8	12	900	0.316	0.190	0.126	XRCA45L227K040CT-E900
4	220	D	85	125	2.7	8.8	10	300	0.592	0.355	0.237	XRCA45L227K040DT-E300
4	220	D	85	125	2.7	8.8	10	600	0.418	0.251	0.167	XRCA45L227K040DT-E600
4	220	E	85	125	2.7	8.8	10	100	1.118	0.671	0.447	XRCA45L227K040ET-E100
4	220	E	85	125	2.7	8.8	10	500	0.500	0.300	0.200	XRCA45L227K040ET-E500
4	330	D	85	125	2.7	13.2	14	400	0.512	0.307	0.205	XRCA45L337K040DT-E400
4	330	D	85	125	2.7	13.2	14	600	0.418	0.251	0.167	XRCA45L337K040DT-E600
4	330	E	85	125	2.7	13.2	12	200	0.791	0.474	0.316	XRCA45L337K040ET-E200
4	330	E	85	125	2.7	13.2	12	600	0.456	0.274	0.183	XRCA45L337K040ET-E600
4	330	V	85	125	2.7	13.2	12	200	0.866	0.520	0.346	XRCA45L337K040VT-E200
4	330	V	85	125	2.7	13.2	12	600	0.500	0.300	0.200	XRCA45L337K040VT-E600
4	470	D	85	125	2.7	18.8	14	200	0.725	0.435	0.290	XRCA45L477K040DT-E200
4	470	D	85	125	2.7	18.8	14	350	0.548	0.329	0.219	XRCA45L477K040DT-E350
4	470	E	85	125	2.7	18.8	12	150	0.913	0.548	0.365	XRCA45L477K040ET-E150
4	470	E	85	125	2.7	18.8	12	350	0.598	0.359	0.239	XRCA45L477K040ET-E350
4	470	V	85	125	2.7	18.8	12	150	1.000	0.600	0.400	XRCA45L477K040VT-E150
4	470	V	85	125	2.7	18.8	12	350	0.655	0.393	0.262	XRCA45L477K040VT-E350
4	680	E	85	125	2.7	27.2	14	150	0.913	0.548	0.365	XRCA45L687K040ET-E150
4	680	E	85	125	2.7	27.2	14	200	0.791	0.474	0.316	XRCA45L687K040ET-E200
4	1000	E	85	125	2.7	40.0	15	150	0.913	0.548	0.365	XRCA45L108K040ET-E150
4	1000	E	85	125	2.7	40.0	15	200	0.791	0.474	0.316	XRCA45L108K040ET-E200
6.3	33	A	85	125	4	2.1	8	1500	0.208	0.125	0.083	XRCA45L336K060AT-E1K5
6.3	33	A	85	125	4	2.1	8	2000	0.180	0.108	0.072	XRCA45L336K060AT-E2K0
6.3	33	B	85	125	4	2.1	8	600	0.354	0.212	0.141	XRCA45L336K060BT-E600
6.3	47	B	85	125	4	3.0	8	600	0.354	0.212	0.141	XRCA45L476K060BT-E600
6.3	47	B	85	125	4	3.0	8	800	0.306	0.184	0.122	XRCA45L476K060BT-E800
6.3	47	C	85	125	4	3.0	6	300	0.548	0.329	0.219	XRCA45L476K060CT-E300
6.3	47	C	85	125	4	3.0	6	500	0.424	0.255	0.170	XRCA45L476K060CT-E500
6.3	68	B	85	125	4	4.3	10	500	0.387	0.232	0.155	XRCA45L686K060BT-E500
6.3	68	B	85	125	4	4.3	10	700	0.327	0.196	0.131	XRCA45L686K060BT-E700
6.3	68	C	85	125	4	4.3	8	500	0.424	0.255	0.170	XRCA45L686K060CT-E500
6.3	68	C	85	125	4	4.3	8	700	0.359	0.215	0.143	XRCA45L686K060CT-E700
6.3	68	D	85	125	4	4.3	6	250	0.648	0.389	0.259	XRCA45L686K060DT-E250
6.3	68	D	85	125	4	4.3	6	500	0.458	0.275	0.183	XRCA45L686K060DT-E500
6.3	100	B	85	125	4	6.3	14	400	0.433	0.260	0.173	XRCA45L107K060BT-E400
6.3	100	B	85	125	4	6.3	14	700	0.327	0.196	0.131	XRCA45L107K060BT-E700
6.3	100	C	85	125	4	6.3	8	300	0.548	0.329	0.219	XRCA45L107K060CT-E300
6.3	100	C	85	125	4	6.3	8	500	0.424	0.255	0.170	XRCA45L107K060CT-E500
6.3	100	D	85	125	4	6.3	8	300	0.592	0.355	0.237	XRCA45L107K060DT-E300
6.3	100	D	85	125	4	6.3	8	500	0.458	0.275	0.183	XRCA45L107K060DT-E500
6.3	150	C	85	125	4	9.5	12	300	0.548	0.329	0.219	XRCA45L157K060CT-E300
6.3	150	C	85	125	4	9.5	12	500	0.424	0.255	0.170	XRCA45L157K060CT-E500
6.3	150	D	85	125	4	9.5	10	300	0.592	0.355	0.237	XRCA45L157K060DT-E300
6.3	150	D	85	125	4	9.5	10	500	0.458	0.275	0.183	XRCA45L157K060DT-E500
6.3	150	E	85	125	4	9.5	10	150	0.913	0.548	0.365	XRCA45L157K060ET-E150
6.3	150	E	85	125	4	9.5	10	300	0.645	0.387	0.258	XRCA45L157K060ET-E300
6.3	220	C	85	125	4	13.9	14	200	0.671	0.402	0.268	XRCA45L227K060CT-E200
6.3	220	C	85	125	4	13.9	14	500	0.424	0.255	0.170	XRCA45L227K060CT-E500

Rated voltage (V)	Nominal capacitance (μF)	Case size	Rated temp. (°C)	Cat. temp. (°C)	Cat. voltage (V)	Max LC (μA) @25°C	Max DF (%) @25°C 100Hz	ESR max (mΩ) @25°C 100kHz	Max ripple IRMS (A) @100kHz 25°C	Max ripple IRMS (A) @100kHz 85°C	Max ripple IRMS (A) @100kHz 125°C	Part number (as printed, original PDF pp.4-15)
6.3	220	D	85	125	4	13.9	12	150	0.837	0.502	0.335	XRCA45L227K060DT-E150
6.3	220	D	85	125	4	13.9	12	300	0.592	0.355	0.237	XRCA45L227K060DT-E300
6.3	220	E	85	125	4	13.9	12	150	0.913	0.548	0.365	XRCA45L227K060ET-E150
6.3	220	E	85	125	4	13.9	12	300	0.645	0.387	0.258	XRCA45L227K060ET-E300
6.3	330	D	85	125	4	20.8	14	150	0.837	0.502	0.335	XRCA45L337K060DT-E150
6.3	330	D	85	125	4	20.8	14	300	0.592	0.355	0.237	XRCA45L337K060DT-E300
6.3	330	E	85	125	4	20.8	14	150	0.913	0.548	0.365	XRCA45L337K060ET-E150
6.3	330	E	85	125	4	20.8	14	300	0.645	0.387	0.258	XRCA45L337K060ET-E300
6.3	470	E	85	125	4	29.6	14	150	0.913	0.548	0.365	XRCA45L477K060ET-E150
6.3	470	E	85	125	4	29.6	14	300	0.645	0.387	0.258	XRCA45L477K060ET-E300
6.3	680	E	85	125	4	42.8	14	150	0.913	0.548	0.365	XRCA45L687K060ET-E150
6.3	680	E	85	125	4	42.8	14	300	0.645	0.387	0.258	XRCA45L687K060ET-E300
10	15	A	85	125	6.3	1.5	8	1000	0.255	0.153	0.102	XRCA45L156K100AT-E1K0
10	15	A	85	125	6.3	1.5	8	1800	0.190	0.114	0.076	XRCA45L156K100AT-E1K8
10	15	B	85	125	6.3	1.5	6	600	0.354	0.212	0.141	XRCA45L156K100BT-E600
10	15	B	85	125	6.3	1.5	6	900	0.289	0.173	0.115	XRCA45L156K100BT-E900
10	22	A	85	125	6.3	2.2	12	1200	0.233	0.140	0.093	XRCA45L226K100AT-E1K2
10	22	A	85	125	6.3	2.2	12	1500	0.208	0.125	0.083	XRCA45L226K100AT-E1K5
10	22	B	85	125	6.3	2.2	6	400	0.433	0.260	0.173	XRCA45L226K100BT-E400
10	22	B	85	125	6.3	2.2	6	500	0.387	0.232	0.155	XRCA45L226K100BT-E500
10	33	B	85	125	6.3	3.3	8	450	0.408	0.245	0.163	XRCA45L336K100BT-E450
10	33	B	85	125	6.3	3.3	8	700	0.327	0.196	0.131	XRCA45L336K100BT-E700
10	33	C	85	125	6.3	3.3	6	400	0.474	0.285	0.190	XRCA45L336K100CT-E400
10	33	C	85	125	6.3	3.3	6	600	0.387	0.232	0.155	XRCA45L336K100CT-E600
10	33	D	85	125	6.3	3.3	6	300	0.592	0.355	0.237	XRCA45L336K100DT-E300
10	33	D	85	125	6.3	3.3	6	500	0.458	0.275	0.183	XRCA45L336K100DT-E500
10	47	B	85	125	6.3	4.7	10	500	0.387	0.232	0.155	XRCA45L476K100BT-E500
10	47	B	85	125	6.3	4.7	10	700	0.327	0.196	0.131	XRCA45L476K100BT-E700
10	47	C	85	125	6.3	4.7	8	400	0.474	0.285	0.190	XRCA45L476K100CT-E400
10	47	C	85	125	6.3	4.7	8	600	0.387	0.232	0.155	XRCA45L476K100CT-E600
10	47	D	85	125	6.3	4.7	6	300	0.592	0.355	0.237	XRCA45L476K100DT-E300
10	47	D	85	125	6.3	4.7	6	500	0.458	0.275	0.183	XRCA45L476K100DT-E500
10	68	C	85	125	6.3	6.8	8	200	0.671	0.402	0.268	XRCA45L686K100CT-E200
10	68	C	85	125	6.3	6.8	8	500	0.424	0.255	0.170	XRCA45L686K100CT-E500
10	68	D	85	125	6.3	6.8	6	150	0.837	0.502	0.335	XRCA45L686K100DT-E150
10	68	D	85	125	6.3	6.8	6	400	0.512	0.307	0.205	XRCA45L686K100DT-E400
10	100	C	85	125	6.3	10.0	10	250	0.600	0.360	0.240	XRCA45L107K100CT-E250
10	100	C	85	125	6.3	10.0	10	500	0.424	0.255	0.170	XRCA45L107K100CT-E500
10	100	D	85	125	6.3	10.0	8	200	0.725	0.435	0.290	XRCA45L107K100DT-E200
10	100	D	85	125	6.3	10.0	8	400	0.512	0.307	0.205	XRCA45L107K100DT-E400
10	100	E	85	125	6.3	10.0	8	150	0.913	0.548	0.365	XRCA45L107K100ET-E150
10	150	D	85	125	6.3	15.0	10	200	0.725	0.435	0.290	XRCA45L157K100DT-E200
10	150	D	85	125	6.3	15.0	10	400	0.512	0.307	0.205	XRCA45L157K100DT-E400
10	150	E	85	125	6.3	15.0	10	150	0.913	0.548	0.365	XRCA45L157K100ET-E150
10	150	E	85	125	6.3	15.0	10	300	0.645	0.387	0.258	XRCA45L157K100ET-E300
10	220	D	85	125	6.3	22.0	12	200	0.725	0.435	0.290	XRCA45L227K100DT-E200
10	220	D	85	125	6.3	22.0	12	400	0.512	0.307	0.205	XRCA45L227K100DT-E400
10	220	E	85	125	6.3	22.0	12	200	0.791	0.474	0.316	XRCA45L227K100ET-E200
10	220	E	85	125	6.3	22.0	12	400	0.559	0.335	0.224	XRCA45L227K100ET-E400
10	220	V	85	125	6.3	22.0	12	200	0.866	0.520	0.346	XRCA45L227K100VT-E200
10	220	V	85	125	6.3	22.0	12	400	0.612	0.367	0.245	XRCA45L227K100VT-E400
10	330	D	85	125	6.3	33.0	14	150	0.837	0.502	0.335	XRCA45L337K100DT-E150
10	330	D	85	125	6.3	33.0	14	250	0.648	0.389	0.259	XRCA45L337K100DT-E250
10	330	E	85	125	6.3	33.0	14	150	0.913	0.548	0.365	XRCA45L337K100ET-E150
10	330	E	85	125	6.3	33.0	14	200	0.791	0.474	0.316	XRCA45L337K100ET-E200
10	330	V	85	125	6.3	33.0	14	150	1.000	0.600	0.400	XRCA45L337K100VT-E150
10	330	V	85	125	6.3	33.0	14	200	0.866	0.520	0.346	XRCA45L337K100VT-E200
10	470	E	85	125	6.3	47.0	14	150	0.913	0.548	0.365	XRCA45L477K100ET-E150
10	470	E	85	125	6.3	47.0	14	200	0.791	0.474	0.316	XRCA45L477K100ET-E200
10	680	E	85	125	6.3	68.0	14	150	0.913	0.548	0.365	XRCA45L687K100ET-E150
10	680	E	85	125	6.3	68.0	14	200	0.791	0.474	0.316	XRCA45L687K100ET-E200
16	6.8	A	85	125	10	1.1	6	2000	0.180	0.108	0.072	XRCA45L685K160AT-E2K0
16	6.8	A	85	125	10	1.1	6	2500	0.161	0.097	0.064	XRCA45L685K160AT-E2K5
16	6.8	B	85	125	10	1.1	6	1200	0.250	0.150	0.100	XRCA45L685K160BT-E1K2
16	6.8	B	85	125	10	1.1	6	2000	0.194	0.116	0.077	XRCA45L685K160BT-E2K0
16	10	A	85	125	10	1.6	8	1700	0.196	0.117	0.078	XRCA45L106K160AT-E1K7
16	10	B	85	125	10	1.6	6	1200	0.250	0.150	0.100	XRCA45L106K160BT-E1K2
16	10	B	85	125	10	1.6	6	2000	0.194	0.116	0.077	XRCA45L106K160BT-E2K0
16	15	B	85	125	10	2.4	6	800	0.306	0.184	0.122	XRCA45L156K160BT-E800
16	15	B	85	125	10	2.4	6	1000	0.274	0.164	0.110	XRCA45L156K160BT-E1K0
16	15	C	85	125	10	2.4	6	600	0.387	0.232	0.155	XRCA45L156K160CT-E600
16	22	B	85	125	10	3.5	8	700	0.327	0.196	0.131	XRCA45L226K160BT-E700
16	22	B	85	125	10	3.5	8	1000	0.274	0.164	0.110	XRCA45L226K160BT-E1K0
16	22	C	85	125	10	3.5	6	500	0.424	0.255	0.170	XRCA45L226K160CT-E500
16	22	C	85	125	10	3.5	6	700	0.359	0.215	0.143	XRCA45L226K160CT-E700
16	22	D	85	125	10	3.5	6	500	0.458	0.275	0.183	XRCA45L226K160DT-E500
16	33	C	85	125	10	5.3	6	500	0.424	0.255	0.170	XRCA45L336K160CT-E500
16	33	C	85	125	10	5.3	6	700	0.359	0.215	0.143	XRCA45L336K160CT-E700

Rated voltage (V)	Nominal capacitance (μF)	Case size	Rated temp. (°C)	Cat. temp. (°C)	Cat. voltage (V)	Max LC (μA) @25°C	Max DF (%) @25°C 100Hz	ESR max (mΩ) @25°C 100kHz	Max ripple IRMS (A) @100kHz 25°C	Max ripple IRMS (A) @100kHz 85°C	Max ripple IRMS (A) @100kHz 125°C	Part number (as printed, original PDF pp.4-15)
16	33	D	85	125	10	5.3	6	300	0.592	0.355	0.237	XRCA45L336K160DT-E300
16	33	D	85	125	10	5.3	6	500	0.458	0.275	0.183	XRCA45L336K160DT-E500
16	47	C	85	125	10	7.5	8	300	0.548	0.329	0.219	XRCA45L476K160CT-E300
16	47	C	85	125	10	7.5	8	500	0.424	0.255	0.170	XRCA45L476K160CT-E500
16	47	D	85	125	10	7.5	6	300	0.592	0.355	0.237	XRCA45L476K160DT-E300
16	47	D	85	125	10	7.5	6	500	0.458	0.275	0.183	XRCA45L476K160DT-E500
16	47	E	85	125	10	7.5	6	200	0.791	0.474	0.316	XRCA45L476K160ET-E200
16	47	E	85	125	10	7.5	6	600	0.456	0.274	0.183	XRCA45L476K160ET-E600
16	68	C	85	125	10	10.9	8	1000	0.300	0.180	0.120	XRCA45L686K160CT-E1K0
16	68	D	85	125	10	10.9	8	200	0.725	0.435	0.290	XRCA45L686K160DT-E200
16	68	D	85	125	10	10.9	8	450	0.483	0.290	0.193	XRCA45L686K160DT-E450
16	68	E	85	125	10	10.9	6	200	0.791	0.474	0.316	XRCA45L686K160ET-E200
16	68	E	85	125	10	10.9	6	600	0.456	0.274	0.183	XRCA45L686K160ET-E600
16	100	C	85	125	10	16.0	12	800	0.335	0.201	0.134	XRCA45L107K160CT-E800
16	100	D	85	125	10	16.0	8	200	0.725	0.435	0.290	XRCA45L107K160DT-E200
16	100	D	85	125	10	16.0	8	500	0.458	0.275	0.183	XRCA45L107K160DT-E500
16	100	E	85	125	10	16.0	8	200	0.791	0.474	0.316	XRCA45L107K160ET-E200
16	100	E	85	125	10	16.0	8	600	0.456	0.274	0.183	XRCA45L107K160ET-E600
16	150	D	85	125	10	24.0	12	500	0.458	0.275	0.183	XRCA45L157K160DT-E500
16	150	D	85	125	10	24.0	12	600	0.418	0.251	0.167	XRCA45L157K160DT-E600
16	150	E	85	125	10	24.0	10	200	0.791	0.474	0.316	XRCA45L157K160ET-E200
16	150	E	85	125	10	24.0	10	250	0.707	0.424	0.283	XRCA45L157K160ET-E250
16	220	E	85	125	10	35.2	12	200	0.791	0.474	0.316	XRCA45L227K160ET-E200
16	220	E	85	125	10	35.2	12	400	0.559	0.335	0.224	XRCA45L227K160ET-E400
16	220	V	85	125	10	35.2	12	200	0.866	0.520	0.346	XRCA45L227K160VT-E200
16	220	V	85	125	10	35.2	12	400	0.612	0.367	0.245	XRCA45L227K160VT-E400
16	330	E	85	125	10	52.8	12	180	0.833	0.500	0.333	XRCA45L337K160ET-E180
16	330	E	85	125	10	52.8	12	500	0.500	0.300	0.200	XRCA45L337K160ET-E500
16	330	V	85	125	10	52.8	12	180	0.913	0.548	0.365	XRCA45L337K160VT-E180
16	330	V	85	125	10	52.8	12	500	0.548	0.329	0.219	XRCA45L337K160VT-E500
16	470	E	85	125	10	75.2	16	450	0.527	0.316	0.211	XRCA45L477K160ET-E450
16	470	E	85	125	10	75.2	16	600	0.456	0.274	0.183	XRCA45L477K160ET-E600
20	3.3	A	85	125	15	0.7	6	4000	0.127	0.076	0.051	XRCA45L335K200AT-E4K0
20	3.3	A	85	125	15	0.7	6	5000	0.114	0.068	0.046	XRCA45L335K200AT-E5K0
20	3.3	B	85	125	15	0.7	6	3000	0.158	0.095	0.063	XRCA45L335K200BT-E3K0
20	3.3	B	85	125	15	0.7	6	4000	0.137	0.082	0.055	XRCA45L335K200BT-E4K0
20	4.7	A	85	125	15	0.9	6	2500	0.161	0.097	0.064	XRCA45L475K200AT-E2K5
20	4.7	A	85	125	15	0.9	6	5000	0.114	0.068	0.046	XRCA45L475K200AT-E5K0
20	4.7	B	85	125	15	0.9	6	1500	0.224	0.134	0.089	XRCA45L475K200BT-E1K5
20	4.7	B	85	125	15	0.9	6	3000	0.158	0.095	0.063	XRCA45L475K200BT-E3K0
20	4.7	C	85	125	15	0.9	6	1000	0.300	0.180	0.120	XRCA45L475K200CT-E1K0
20	4.7	C	85	125	15	0.9	6	2500	0.190	0.114	0.076	XRCA45L475K200CT-E2K5
20	6.8	B	85	125	15	1.4	6	1000	0.274	0.164	0.110	XRCA45L685K200BT-E1K0
20	6.8	B	85	125	15	1.4	6	1800	0.204	0.122	0.082	XRCA45L685K200BT-E1K8
20	6.8	C	85	125	15	1.4	6	800	0.335	0.201	0.134	XRCA45L685K200CT-E800
20	6.8	C	85	125	15	1.4	6	1200	0.274	0.164	0.110	XRCA45L686K200CT-E1K2
20	10	B	85	125	15	2.0	6	1200	0.250	0.150	0.100	XRCA45L106K200BT-E1K2
20	10	B	85	125	15	2.0	6	1800	0.204	0.122	0.082	XRCA45L106K200BT-E1K8
20	10	C	85	125	15	2.0	6	600	0.387	0.232	0.155	XRCA45L106K200CT-E600
20	10	C	85	125	15	2.0	6	1000	0.300	0.180	0.120	XRCA45L106K200CT-E1K0
20	10	D	85	125	15	2.0	6	500	0.458	0.275	0.183	XRCA45L106K200DT-E500
20	10	D	85	125	15	2.0	6	1000	0.324	0.194	0.130	XRCA45L106K200DT-E1K0
20	15	B	85	125	15	3.0	6	1500	0.224	0.134	0.089	XRCA45L156K200BT-E1K5
20	15	B	85	125	15	3.0	6	1800	0.204	0.122	0.082	XRCA45L156K200BT-E1K8
20	15	C	85	125	15	3.0	6	800	0.335	0.201	0.134	XRCA45L156K200CT-E800
20	15	C	85	125	15	3.0	6	1000	0.300	0.180	0.120	XRCA45L156K200CT-E1K0
20	15	D	85	125	15	3.0	6	600	0.418	0.251	0.167	XRCA45L156K200DT-E600
20	15	D	85	125	15	3.0	6	800	0.362	0.217	0.145	XRCA45L155K200DT-E800
20	22	C	85	125	15	4.4	6	600	0.387	0.232	0.155	XRCA45L226K200CT-E600
20	22	C	85	125	15	4.4	6	900	0.316	0.190	0.126	XRCA45L226K200CT-E900
20	22	D	85	125	15	4.4	6	400	0.512	0.307	0.205	XRCA45L226K200DT-E400
20	22	D	85	125	15	4.4	6	600	0.418	0.251	0.167	XRCA45L226K200DT-E600
20	33	C	85	125	15	6.6	6	600	0.387	0.232	0.155	XRCA45L335K200CT-E600
20	33	C	85	125	15	6.6	6	900	0.316	0.190	0.126	XRCA45L336K200CT-E900
20	33	D	85	125	15	6.6	6	400	0.512	0.307	0.205	XRCA45L336K200DT-E400
20	33	D	85	125	15	6.6	6	600	0.418	0.251	0.167	XRCA45L336K200DT-E600
20	47	C	85	125	15	9.4	8	300	0.548	0.329	0.219	XRCA45L476K200CT-E300
20	47	C	85	125	15	9.4	8	400	0.474	0.285	0.190	XRCA45L476K200CT-E400
20	47	D	85	125	15	9.4	8	250	0.648	0.389	0.259	XRCA45L476K200DT-E250
20	47	D	85	125	15	9.4	8	500	0.458	0.275	0.183	XRCA45L476K200DT-E500
20	47	E	85	125	15	9.4	6	250	0.707	0.424	0.283	XRCA45L476K200ET-E250
20	47	E	85	125	15	9.4	6	500	0.500	0.300	0.200	XRCA45L476K200ET-E500
20	68	D	85	125	15	13.6	8	250	0.648	0.389	0.259	XRCA45L686K200DT-E250
20	68	D	85	125	15	13.6	8	300	0.592	0.355	0.237	XRCA45L686K200DT-E300
20	68	E	85	125	15	13.6	6	250	0.707	0.424	0.283	XRCA45L686K200ET-E250
20	68	E	85	125	15	13.6	6	500	0.500	0.300	0.200	XRCA45L686K200ET-E500
20	100	D	85	125	15	20.0	10	300	0.592	0.355	0.237	XRCA45L107K200DT-E300
20	100	D	85	125	15	20.0	10	400	0.512	0.307	0.205	XRCA45L107K200DT-E400

Rated voltage (V)	Nominal capacitance (μF)	Case size	Rated temp. (°C)	Cat. temp. (°C)	Cat. voltage (V)	Max LC (μA) @25°C	Max DF (%) @25°C 100Hz	ESR max (mΩ) @25°C 100kHz	Max ripple IRMS (A) @100kHz 25°C	Max ripple IRMS (A) @100kHz 85°C	Max ripple IRMS (A) @100kHz 125°C	Part number (as printed, original PDF pp.4-15)
20	100	E	85	125	15	20.0	10	250	0.707	0.424	0.283	XRCA45L107K200ET-E250
20	100	E	85	125	15	20.0	10	300	0.645	0.387	0.258	XRCA45L107K200ET-E300
20	150	D	85	125	15	30.0	10	450	0.483	0.290	0.193	XRCA45L157K200DT-E450
20	150	D	85	125	15	30.0	10	600	0.418	0.251	0.167	XRCA45L157K200DT-E600
20	150	E	85	125	15	30.0	10	180	0.833	0.500	0.333	XRCA45L157K200ET-E180
20	150	E	85	125	15	30.0	10	250	0.707	0.424	0.283	XRCA45L157K200ET-E250
20	220	E	85	125	15	44.0	12	450	0.527	0.316	0.211	XRCA45L227K200ET-E450
20	220	E	85	125	15	44.0	12	600	0.456	0.274	0.183	XRCA45L227K200ET-E600
20	220	V	85	125	15	44.0	12	250	0.775	0.465	0.310	XRCA45L227K200VT-E250
20	220	V	85	125	15	44.0	12	400	0.612	0.367	0.245	XRCA45L227K200VT-E400
20	330	E	85	125	15	66.0	12	450	0.527	0.316	0.211	XRCA45L337K200ET-E450
20	330	E	85	125	15	66.0	12	600	0.456	0.274	0.183	XRCA45L337K200ET-E600
20	330	V	85	125	15	66.0	12	450	0.577	0.346	0.231	XRCA45L337K200VT-E450
20	330	V	85	125	15	66.0	12	600	0.500	0.300	0.200	XRCA45L337K200VT-E600
25	1.5	A	85	125	17	0.5	6	4500	0.120	0.072	0.048	XRCA45L155K250AT-E4K5
25	1.5	A	85	125	17	0.5	6	7500	0.093	0.056	0.037	XRCA45L155K250AT-E7K5
25	1.5	B	85	125	17	0.5	6	3000	0.158	0.095	0.063	XRCA45L155K250BT-E3K0
25	1.5	B	85	125	17	0.5	6	5000	0.122	0.073	0.049	XRCA45L155K250BT-E5K0
25	2.2	A	85	125	17	0.6	6	3000	0.147	0.088	0.059	XRCA45L225K250AT-E3K0
25	2.2	A	85	125	17	0.6	6	8000	0.090	0.054	0.036	XRCA45L225K250AT-E8K0
25	2.2	B	85	125	17	0.6	6	2500	0.173	0.104	0.069	XRCA45L225K250BT-E2K5
25	2.2	B	85	125	17	0.6	6	5000	0.122	0.073	0.049	XRCA45L225K250BT-E5K0
25	3.3	B	85	125	17	0.8	6	2000	0.194	0.116	0.077	XRCA45L335K250BT-E2K0
25	3.3	B	85	125	17	0.8	6	3000	0.158	0.095	0.063	XRCA45L335K250BT-E3K0
25	3.3	C	85	125	17	0.8	6	1200	0.274	0.164	0.110	XRCA45L335K250CT-E1K2
25	3.3	C	85	125	17	0.8	6	2000	0.212	0.127	0.085	XRCA45L335K250CT-E2K0
25	4.7	B	85	125	17	1.2	6	1000	0.274	0.164	0.110	XRCA45L475K250BT-E1K0
25	4.7	B	85	125	17	1.2	6	1200	0.250	0.150	0.100	XRCA45L475K250BT-E1K2
25	4.7	C	85	125	17	1.2	6	1000	0.300	0.180	0.120	XRCA45L475K250CT-E1K0
25	4.7	C	85	125	17	1.2	6	2000	0.212	0.127	0.085	XRCA45L475K250CT-E2K0
25	6.8	B	85	125	17	1.7	6	2000	0.194	0.116	0.077	XRCA45L685K250BT-E2K0
25	6.8	B	85	125	17	1.7	6	2500	0.173	0.104	0.069	XRCA45L685K250BT-E2K5
25	6.8	C	85	125	17	1.7	6	1000	0.300	0.180	0.120	XRCA45L685K250CT-E1K0
25	6.8	C	85	125	17	1.7	6	1500	0.245	0.147	0.098	XRCA45L685K250CT-E1K5
25	6.8	D	85	125	17	1.7	6	700	0.387	0.232	0.155	XRCA45L685K250DT-E700
25	6.8	D	85	125	17	1.7	6	1000	0.324	0.194	0.130	XRCA45L685K250DT-E1K0
25	10	B	85	125	17	2.5	8	1500	0.224	0.134	0.089	XRCA45L106K250BT-E1K5
25	10	B	85	125	17	2.5	8	2000	0.194	0.116	0.077	XRCA45L106K250BT-E2K0
25	10	C	85	125	17	2.5	6	900	0.316	0.190	0.126	XRCA45L106K250CT-E900
25	10	C	85	125	17	2.5	6	1200	0.274	0.164	0.110	XRCA45L106K250CT-E1K2
25	10	D	85	125	17	2.5	6	450	0.483	0.290	0.193	XRCA45L106K250DT-E450
25	10	D	85	125	17	2.5	6	800	0.362	0.217	0.145	XRCA45L106K250DT-E800
25	15	C	85	125	17	3.8	6	500	0.424	0.255	0.170	XRCA45L156K250CT-E500
25	15	C	85	125	17	3.8	6	1000	0.300	0.180	0.120	XRCA45L156K250CT-E1K0
25	15	D	85	125	17	3.8	6	400	0.512	0.307	0.205	XRCA45L156K250DT-E400
25	15	D	85	125	17	3.8	6	600	0.418	0.251	0.167	XRCA45L156K250DT-E600
25	22	C	85	125	17	5.5	6	800	0.335	0.201	0.134	XRCA45L226K250CT-E800
25	22	C	85	125	17	5.5	6	1000	0.300	0.180	0.120	XRCA45L226K250CT-E1K0
25	22	D	85	125	17	5.5	6	400	0.512	0.307	0.205	XRCA45L226K250DT-E400
25	22	D	85	125	17	5.5	6	600	0.418	0.251	0.167	XRCA45L226K250DT-E600
25	33	D	85	125	17	8.3	8	300	0.592	0.355	0.237	XRCA45L336K250DT-E300
25	33	D	85	125	17	8.3	8	500	0.458	0.275	0.183	XRCA45L336K250DT-E500
25	33	E	85	125	17	8.3	6	250	0.707	0.424	0.283	XRCA45L336K250ET-E250
25	33	E	85	125	17	8.3	6	500	0.500	0.300	0.200	XRCA45L336K250ET-E500
25	47	D	85	125	17	11.8	8	350	0.548	0.329	0.219	XRCA45L476K250DT-E350
25	47	D	85	125	17	11.8	8	500	0.458	0.275	0.183	XRCA45L476K250DT-E500
25	47	E	85	125	17	11.8	6	300	0.645	0.387	0.258	XRCA45L476K250ET-E300
25	47	E	85	125	17	11.8	6	600	0.456	0.274	0.183	XRCA45L476K250ET-E600
25	68	E	85	125	17	17.0	8	250	0.707	0.424	0.283	XRCA45L686K250ET-E250
25	68	E	85	125	17	17.0	8	500	0.500	0.300	0.200	XRCA45L686K250ET-E500
25	68	V	85	125	17	17.0	8	250	0.775	0.465	0.310	XRCA45L686K250VT-E250
25	68	V	85	125	17	17.0	8	600	0.500	0.300	0.200	XRCA45L686K250VT-E600
25	100	E	85	125	17	25.0	10	200	0.791	0.474	0.316	XRCA45L107K250ET-E200
25	100	E	85	125	17	25.0	10	250	0.707	0.424	0.283	XRCA45L107K250ET-E250
25	100	V	85	125	17	25.0	10	200	0.866	0.520	0.346	XRCA45L107K250VT-E200
25	100	V	85	125	17	25.0	10	250	0.775	0.465	0.310	XRCA45L107K250VT-E250
25	150	E	85	125	17	37.5	10	600	0.456	0.274	0.183	XRCA45L157K250ET-E600
25	150	V	85	125	17	37.5	10	300	0.707	0.424	0.283	XRCA45L157K250VT-E300
35	0.47	A	85	125	23	0.5	6	4000	0.127	0.076	0.051	XRCA45L474K350AT-E4K0
35	0.47	A	85	125	23	0.5	6	8000	0.090	0.054	0.036	XRCA45L474K350AT-E8K0
35	0.68	A	85	125	23	0.5	6	6000	0.104	0.062	0.042	XRCA45L684K350AT-E6K0
35	0.68	A	85	125	23	0.5	6	7000	0.096	0.058	0.039	XRCA45L684K350AT-E7K0
35	1	A	85	125	23	0.5	6	6000	0.104	0.062	0.042	XRCA45L105K350AT-E6K0
35	1	A	85	125	23	0.5	6	7000	0.096	0.058	0.039	XRCA45L105K350AT-E7K0
35	1	B	85	125	23	0.5	4	2500	0.173	0.104	0.069	XRCA45L105K350BT-E2K5
35	1	B	85	125	23	0.5	4	3000	0.158	0.095	0.063	XRCA45L105K350BT-E3K0
35	1.5	B	85	125	23	0.5	6	3000	0.158	0.095	0.063	XRCA45L155K350BT-E3K0
35	1.5	B	85	125	23	0.5	6	4000	0.137	0.082	0.055	XRCA45L155K350BT-E4K0

Rated voltage (V)	Nominal capacitance (μF)	Case size	Rated temp. (°C)	Cat. temp. (°C)	Cat. voltage (V)	Max LC (μA) @25°C	Max DF (%) @25°C 100Hz	ESR max (mΩ) @25°C 100kHz	Max ripple IRMS (A) @100kHz 25°C	Max ripple IRMS (A) @100kHz 85°C	Max ripple IRMS (A) @100kHz 125°C	Part number (as printed, original PDF pp.4-15)
35	1.5	C	85	125	23	0.5	6	2500	0.190	0.114	0.076	XRCA45L155K350CT-E2K5
35	1.5	C	85	125	23	0.5	6	3000	0.173	0.104	0.069	XRCA45L155K350CT-E3K0
35	2.2	B	85	125	23	0.8	6	2500	0.173	0.104	0.069	XRCA45L225K350BT-E2K5
35	2.2	B	85	125	23	0.8	6	3000	0.158	0.095	0.063	XRCA45L225K350BT-E3K0
35	2.2	C	85	125	23	0.8	6	2000	0.212	0.127	0.085	XRCA45L225K350CT-E2K0
35	2.2	C	85	125	23	0.8	6	2500	0.190	0.114	0.076	XRCA45L225K350CT-E2K5
35	3.3	B	85	125	23	1.2	6	2500	0.173	0.104	0.069	XRCA45L335K350BT-E2K5
35	3.3	B	85	125	23	1.2	6	3000	0.158	0.095	0.063	XRCA45L335K350BT-E3K0
35	3.3	C	85	125	23	1.2	6	1200	0.274	0.164	0.110	XRCA45L335K350CT-E1K2
35	3.3	C	85	125	23	1.2	6	2000	0.212	0.127	0.085	XRCA45L335K350CT-E2K0
35	4.7	B	85	125	23	1.6	8	2000	0.194	0.116	0.077	XRCA45L475K350BT-E2K0
35	4.7	B	85	125	23	1.6	8	2500	0.173	0.104	0.069	XRCA45L475K350BT-E2K5
35	4.7	C	85	125	23	1.6	6	800	0.335	0.201	0.134	XRCA45L475K350CT-E800
35	4.7	C	85	125	23	1.6	6	1000	0.300	0.180	0.120	XRCA45L475K350CT-E1K0
35	4.7	D	85	125	23	1.6	6	700	0.387	0.232	0.155	XRCA45L475K350DT-E700
35	4.7	D	85	125	23	1.6	6	1000	0.324	0.194	0.130	XRCA45L475K350DT-E1K0
35	6.8	C	85	125	23	2.4	6	700	0.359	0.215	0.143	XRCA45L685K350CT-E700
35	6.8	C	85	125	23	2.4	6	1200	0.274	0.164	0.110	XRCA45L685K350CT-E1K2
35	6.8	D	85	125	23	2.4	6	600	0.418	0.251	0.167	XRCA45L685K350DT-E600
35	6.8	D	85	125	23	2.4	6	1000	0.324	0.194	0.130	XRCA45L685K350DT-E1K0
35	10	C	85	125	23	3.5	6	700	0.359	0.215	0.143	XRCA45L106K350CT-E700
35	10	C	85	125	23	3.5	6	1000	0.300	0.180	0.120	XRCA45L106K350CT-E1K0
35	10	D	85	125	23	3.5	6	400	0.512	0.307	0.205	XRCA45L106K350DT-E400
35	10	D	85	125	23	3.5	6	800	0.362	0.217	0.145	XRCA45L106K350DT-E800
35	15	D	85	125	23	5.3	6	350	0.548	0.329	0.219	XRCA45L156K350DT-E350
35	15	D	85	125	23	5.3	6	600	0.418	0.251	0.167	XRCA45L156K350DT-E600
35	15	E	85	125	23	5.3	6	300	0.645	0.387	0.258	XRCA45L156K350ET-E300
35	15	E	85	125	23	5.3	6	600	0.456	0.274	0.183	XRCA45L156K350ET-E600
35	22	D	85	125	23	7.7	6	400	0.512	0.307	0.205	XRCA45L226K350DT-E400
35	22	D	85	125	23	7.7	6	500	0.458	0.275	0.183	XRCA45L226K350DT-E500
35	22	E	85	125	23	7.7	6	300	0.645	0.387	0.258	XRCA45L226K350ET-E300
35	22	E	85	125	23	7.7	6	400	0.559	0.335	0.224	XRCA45L226K350ET-E400
35	33	D	85	125	23	11.6	8	500	0.458	0.275	0.183	XRCA45L336K350DT-E500
35	33	D	85	125	23	11.6	8	700	0.387	0.232	0.155	XRCA45L336K350DT-E700
35	33	E	85	125	23	11.6	6	300	0.645	0.387	0.258	XRCA45L336K350ET-E300
35	33	E	85	125	23	11.6	6	600	0.456	0.274	0.183	XRCA45L336K350ET-E600
35	47	D	85	125	23	16.5	8	400	0.512	0.307	0.205	XRCA45L476K350DT-E400
35	47	D	85	125	23	16.5	8	900	0.342	0.205	0.137	XRCA45L476K350DT-E900
35	47	E	85	125	23	16.5	6	400	0.559	0.335	0.224	XRCA45L476K350ET-E400
35	47	E	85	125	23	16.5	6	600	0.456	0.274	0.183	XRCA45L476K350ET-E600
35	68	E	85	125	23	23.8	8	800	0.395	0.237	0.158	XRCA45L686K350ET-E800
50	0.47	A	85	125	33	0.5	6	3000	0.147	0.088	0.059	XRCA45L474K500AT-E3K0
50	0.47	A	85	125	33	0.5	6	6000	0.104	0.062	0.042	XRCA45L474K500AT-E6K0
50	0.68	B	85	125	33	0.5	6	3000	0.158	0.095	0.063	XRCA45L684K500BT-E3K0
50	0.68	B	85	125	33	0.5	6	6000	0.112	0.067	0.045	XRCA45L684K500BT-E6K0
50	1	B	85	125	33	0.5	6	2500	0.173	0.104	0.069	XRCA45L105K500BT-E2K5
50	1	B	85	125	33	0.5	6	4000	0.137	0.082	0.055	XRCA45L105K500BT-E4K0
50	1	C	85	125	33	0.5	4	1800	0.224	0.134	0.089	XRCA45L105K500CT-E1K8
50	1	C	85	125	33	0.5	4	4000	0.150	0.090	0.060	XRCA45L105K500CT-E4K0
50	1.5	C	85	125	33	0.8	6	1800	0.224	0.134	0.089	XRCA45L155K500CT-E1K8
50	1.5	C	85	125	33	0.8	6	3000	0.173	0.104	0.069	XRCA45L155K500CT-E3K0
50	1.5	D	85	125	33	0.8	6	1000	0.324	0.194	0.130	XRCA45L155K500DT-E1K0
50	1.5	D	85	125	33	0.8	6	2500	0.205	0.123	0.082	XRCA45L155K500DT-E2K5
50	2.2	C	85	125	33	1.1	6	1500	0.245	0.147	0.098	XRCA45L225K500CT-E1K5
50	2.2	C	85	125	33	1.1	6	2000	0.212	0.127	0.085	XRCA45L225K500CT-E2K0
50	2.2	D	85	125	33	1.1	6	700	0.387	0.232	0.155	XRCA45L225K500DT-E700
50	2.2	D	85	125	33	1.1	6	1000	0.324	0.194	0.130	XRCA45L225K500DT-E1K0
50	3.3	C	85	125	33	1.7	6	700	0.359	0.215	0.143	XRCA45L335K500CT-E700
50	3.3	C	85	125	33	1.7	6	1500	0.245	0.147	0.098	XRCA45L335K500CT-E1K5
50	3.3	D	85	125	33	1.7	6	700	0.387	0.232	0.155	XRCA45L335K500DT-E700
50	3.3	D	85	125	33	1.7	6	1500	0.265	0.159	0.106	XRCA45L335K500DT-E1K5
50	4.7	C	85	125	33	2.4	6	700	0.359	0.215	0.143	XRCA45L475K500CT-E700
50	4.7	C	85	125	33	2.4	6	1000	0.300	0.180	0.120	XRCA45L475K500CT-E1K0
50	4.7	D	85	125	33	2.4	6	600	0.418	0.251	0.167	XRCA45L475K500DT-E600
50	4.7	D	85	125	33	2.4	6	1000	0.324	0.194	0.130	XRCA45L475K500DT-E1K0
50	6.8	D	85	125	33	3.4	6	600	0.418	0.251	0.167	XRCA45L685K500DT-E600
50	6.8	D	85	125	33	3.4	6	800	0.362	0.217	0.145	XRCA45L685K500DT-E800
50	6.8	E	85	125	33	3.4	6	500	0.500	0.300	0.200	XRCA45L685K500ET-E500
50	6.8	E	85	125	33	3.4	6	1000	0.354	0.212	0.141	XRCA45L685K500ET-E1K0
50	10	D	85	125	33	5.0	6	400	0.512	0.307	0.205	XRCA45L106K500DT-E400
50	10	D	85	125	33	5.0	6	600	0.418	0.251	0.167	XRCA45L106K500DT-E600
50	10	E	85	125	33	5.0	6	400	0.559	0.335	0.224	XRCA45L106K500ET-E400
50	10	E	85	125	33	5.0	6	800	0.395	0.237	0.158	XRCA45L106K500ET-E800
50	15	E	85	125	33	7.5	6	400	0.559	0.335	0.224	XRCA45L156K500ET-E400
50	15	E	85	125	33	7.5	6	500	0.500	0.300	0.200	XRCA45L156K500ET-E500
50	22	E	85	125	33	11.0	8	400	0.559	0.335	0.224	XRCA45L226K500ET-E400
50	22	E	85	125	33	11.0	8	500	0.500	0.300	0.200	XRCA45L226K500ET-E500
63	1	C	85	125	40	0.6	6	2000	0.212	0.127	0.085	XRCA45L105K630AT-E2K0

Rated voltage (V)	Nominal capacitance (μF)	Case size	Rated temp. (°C)	Cat. temp. (°C)	Cat. voltage (V)	Max LC (μA) @25°C	Max DF (%) @25°C 100Hz	ESR max (mΩ) @25°C 100kHz	Max ripple IRMS (A) @100kHz 25°C	Max ripple IRMS (A) @100kHz 85°C	Max ripple IRMS (A) @100kHz 125°C	Part number (as printed, original PDF pp.4–15)
63	1.5	D	85	125	40	0.9	6	2500	0.205	0.123	0.082	XRCA45L155K630DT-E2K5
63	2.2	D	85	125	40	1.4	6	1500	0.265	0.159	0.106	XRCA45L225K630DT-E1K5
63	3.3	D	85	125	40	2.1	6	1200	0.296	0.177	0.118	XRCA45L335K630DT-E1K2
63	4.7	E	85	125	40	3.0	6	800	0.395	0.237	0.158	XRCA45L475K630ET-E800
63	6.8	E	85	125	40	4.3	6	600	0.456	0.274	0.183	XRCA45L685K630ET-E600
63	10	E	85	125	40	6.3	8	450	0.527	0.316	0.211	XRCA45L106K630ET-E450
63	15	E	85	125	40	9.5	8	300	0.645	0.387	0.258	XRCA45L156K630ET-E300
63	15	V	85	125	40	9.5	8	300	0.707	0.424	0.283	XRCA45L156K630VT-E300
63	22	V	85	125	40	13.9	8	300	0.707	0.424	0.283	XRCA45L226K630VT-E300

#: replace the character to represent capacitance tolerance, where M represents ±20%

Please do not use a multimeter to measure

Capacitance and loss measurement conditions: 100Hz, U_r=2.2 0-1V, U_b≈1.00 V, Frequency=100Hz, measured in series

If the ambient temperature is higher than +85°C, the rated voltage needs to be reduced for use (the leakage current parameter is the reading after 5 minutes of power on)

For special sizes or requirements, please contact us.

Note 3: 'U_r=2.2 0-1V' is printed as shown; the DC bias value cannot be read unambiguously — subject to manufacturer confirmation.

Note 1 refers to '#'; all listed part numbers are printed with K (±10%) — subject to manufacturer confirmation.

20 V 6.8 μF XRCA45L686K200CT-E1K2: capacitance code 686 (= 68 μF) vs. capacitance 6.8 μF as printed (original PDF p.9) — subject to manufacturer confirmation.

20 V 15 μF XRCA45L155K200DT-E800: capacitance code 155 (= 1.5 μF) vs. capacitance 15 μF as printed (original PDF p.9) — subject to manufacturer confirmation.

20 V 33 μF XRCA45L335K200CT-E600: capacitance code 335 (= 3.3 μF) vs. capacitance 33 μF as printed (original PDF p.10) — subject to manufacturer confirmation.

63 V 1 μF XRCA45L105K630AT-E2K0: case letter A in the part number vs. case size C in the table (original PDF p.15; p.3 also gives C) — subject to manufacturer confirmation.

Case V has no outline dimensions (original PDF p.1 lists case W, which has no part number) — subject to manufacturer confirmation.

63 V is not listed in the Technical characteristics table (original PDF p.2: 4–50 V); category voltage 40 V is from the characteristics list — subject to manufacturer confirmation.

Rated-voltage codes 200, 350, 500 and 630 used in the part numbers are not listed under How to order (original PDF p.1) — subject to manufacturer confirmation.

ESR code: How to order (p.1) explains only the three-digit form (700 = 700 mΩ); part numbers also use codes such as E1K0, E1K5, E2K0, matching 1000, 1500, 2000 mΩ in the ESR column — subject to manufacturer confirmation.